

HARVARD UNIVERSITY



LIBRARY

OF THE

Museum of Comparative Zoology

Marshall's Unionid Types
or
Types of recent and fossil Unionacea and Mutelacea introduced
by William B. Marshall, including a bibliography of all his
writings on mollusks

BY
RICHARD I. JOHNSON
ASSOCIATE IN MALACOLOGY
MUSEUM OF COMPARATIVE ZOOLOGY



William B. Marshall (1865-1957)
Photograph 1931

Special Occasional Publication
No. 3

Published by the
Department of Mollusks
Museum of Comparative Zoology
Harvard University
Cambridge, Massachusetts 02138
1974

MARSHALL'S UNIONID TYPES

or

TYPES OF RECENT AND FOSSIL UNIONACEA AND MUTELACEA INTRODUCED
BY WILLIAM B. MARSHALL, INCLUDING A BIBLIOGRAPHY OF ALL OF HIS
WRITINGS ON MOLLUSKS.

By Richard I. Johnson

William B. Marshall (1865-1957) was, as a young man, employed by the New York State Museum, Albany, New York where he began publishing on the local Unionacea. Later he became associated with the National Museum, where he remained until retirement. With the exception of his last paper published in the Journal of the Washington Academy of Science, all of Marshall's new genera and species were published in the Proceedings of the United States National Museum. All his types are in the National Museum.

ACKNOWLEDGEMENTS

Special thanks are extended to Drs. Joseph Rosewater, Joseph P. E. Morrison and Harald A. Rehder of the National Museum of Natural History who, over the years, have been most liberal in allowing me access to the unionid types in their charge. Thanks are also due to William B. Marshall who left a card catalogue of his works and types which greatly facilitated the present work.

BIBLIOGRAPHY OF WILLIAM B. MARSHALL'S

WRITINGS ON MOLLUSKS

1887. Monograph of the family Solariidae. [in] G. W. Tryon,
Manual of Conchology 9: 1-32, pls. 1-6.
1890. Beaks of Unionidae inhabiting the vicinity of Albany,
New York. Bull. New York State Mus. 2 (9): 169-189, 1 pl.
1892. Preliminary list of New York Unionidae. Bull. New York
State Museum 1 (1): 1-17. [Since James Hall did not avail
himself of the honor of writing the first Bulletin, this paper
fills that gap in the series.]
1892. Notes on the colonization of fresh-water snails. Nautilus
5: 133.
1892. Littoral land snails of New Jersey. Nautilus 6: 19.
1892. Gould's types of Nassa and Columbella. Nautilus 6: 47.
1892. Helices colonized in Herkimer County, New York.
Nautilus 6: 126
1893. Land and fresh-water shells of New York exhibited at the
World's Columbian Exposition, Chicago, Illinois. 47th Ann.
Rept. New York State Mus. pp. 49-75.
1893. Catalogues [of various families of shells in the New York
State Museum]. 47th Ann. Rept. New York State Mus. pp. 77-128.
1894. Geographical distribution of New York Unionidae. 48th
Ann. Rept. New York State Mus. pp. 45-99.

1894. List of shells inhabiting the vicinity of Albany and Troy, New York. 48th Ann. Rept. New York State Mus. pp. 641-647.
1915. Three new species of Anodontites from Brazil. Proc. United States Natl. Mus. 49: 527-529, pls. 67-69.
1916. A new genus and species of Naiad from the James River at Huron, South Dakota. Nautilus 29: 133-135, pl. 4.
1917. New and little known species of South American freshwater mussels of the genus Diplodon. Proc. United States Natl. Mus. 53: 381-388, pls. 50-55.
1917. Lampsilis ventricosa cohongoronta in the Potomac River. Nautilus 31: 40-41.
1918. Lampsilis ventricosa cohongoronta in the Potomac Valley. Nautilus 32: 51.
1920. New fresh-water shells from Guatemala. Proc. United States Natl. Mus. 58: 301-302, pl. 17.
1922. New pearly fresh-water mussels from South America. Proc. United States Natl. Mus. 61, art. 16, pp. 1-9, pls. 1-3.
1922. A large Quadrula heros Say. Nautilus 36: 25-27.
1924. New pearly fresh-water mussels from Mexico and Uruguay. Proc. United States Natl. Mus. 63, art. 16, pp. 1-4, pls. 1-3.
1924. New species of mollusk of the genus Chilina. Proc. United States Natl. Mus. 66, art. 13, pp. 1-5, pl. 1.

1924. New Uruguayan mollusks of the genus Corbicula. Proc. United States Natl. Mus. 66, art. 15, pp. 1-12, pls. 1-2.
1925. Microscopic sculpture of pearly fresh-water mussel shells. Proc. United States Natl. Mus. 67, art. 4, pp. 1-14, pls. 1-4.
1926. New fossil fresh-water shells from Florida. Proc. United States Natl. Mus. 68, art. 11, pp. 1-4, pl. 1.
1926. New land and fresh-water mollusks from Central and South America. Proc. United States Natl. Mus. 69, art. 12, pp. 1-12, pls. 1-3.
1927. A new genus and two new species of South American fresh-water mussels. Proc. United States Natl. Mus. 71, art. 6, pp. 1-4, pls. 1, 2.
1927. New species of mollusks of the genus Corbicula from Uruguay and Brazil. Proc. United States Natl. Mus. 72, art. 3, pp. 1-7, pl. 1.
1927. The Australian land shell, Thersites bipartita and its allies. Proc. United States Natl. Mus. 72, art. 15, pp. 1-16, pls. 1-3.
1928. Strophocheilus (Borus) globosus Martens. Nautilus 42: 21-22.
1928. New fossil pearly fresh-water mussels from deposits on the upper Amazon of Peru. Proc. United States Natl. Mus. 74, art. 3, pp. 1-7, pl. 1.

1928. New fresh-water and marine bivalve shells from Brazil.
Proc. United States Natl. Mus. 74, art. 17, pp. 1-7, pls. 1-4.
1929. New fossil land and fresh-water mollusks from the Reynosa formation of Texas. Proc. United States Natl. Mus. 76, art. 1, pp. 1-6, pl. 1.
1929. Three new land shells of the genus Oreohelix from Arizona.
Proc. United States Natl. Mus. 76, art. 5, pp. 1-3, pl. 1.
1930. New land and fresh-water mollusks from South America. Proc. United States Natl. Mus. 77, art. 2, pp. 1-7, pls. 1-2.
1930. Mollusks from below Conowingo Dam, Maryland. Nautilus 43: 87-88.
1930. Type of Anodontites Bruguiere. Nautilus 43: 128-130.
1930. Lampsilis ventricosus cohongoronta in the Potomac River.
Nautilus 44: 19-21.
1930. Former and present terms used in describing fresh-water mussels. Nautilus 44: 41-42.
1930. Bulimulus hendersoni new name. Nautilus 44: 100.
1931. Ruganodontites, a new subgenus of South American pearly fresh-water mussels. Nautilus 45: 16-20.
1931. Monocondylaea costulata Moricand. Nautilus 45: 55-58.
1931. Anodontites: a genus of South and Central American and Mexican pearly fresh-water mussels. Proc. United States Natl. Mus. 79, art. 23, pp. 1-16, pls. 1-2.

1932. Two new land shells of the genus Bulimulus from Bolivia.
Proc. United States Natl. Mus. 81, art. 14, pp. 1-3, pl. 1.
1932. Limpets bored by Natica? Nautilus 46: 45-47.
1932. and Edgar O. Bowles. New fossil fresh-water mollusks from Ecuador. Proc. United States Natl. Mus. 82, art. 5, pp. 1-7, pl. 1.
1933. New fresh-water gastropod mollusks of the genus Chilina of South America. Proc. United States Natl. Mus. 82, art. 8, pp. 1-6, pl. 1.
1933. Bulimus tentaculatus (L.) (Bithynia tentaculata) living in the Potomac River. Nautilus 46: 139-140.
1933. The pedal protractor muscle scar in shells of Naiades. Nautilus 47: 72-76.
1934. Two new species of pearly fresh-water mussels. Jour. Washington Acad. Sci. 24 (2): 78-81.

RECENT AND FOSSIL TAXA OF UNIONACEA AND MUTELACEA INTRODUCED

By WILLIAM B. MARSHALL

The following list includes all of the molluscan taxa introduced by William B. Marshall; these include a number of genera as well as species. It is arranged alphabetically by species, giving the year and place of publication of the original description, the type locality, and the type number.

The following abbreviations have been used in this list:

PUSNM -- Proceedings United States National Museum

USNM -- National Museum of Natural History

Antediplodon Marshall, genus: 1929, PUSNM 76, art. 1, p. 4.

Type species: Unio dumblei Simpson, original designation.

arcuatus Marshall, Diplodon: 1922, PUSNM 61, art. 16, p. 4,
pl. 1, figs. 4, 6; pl. 2, figs. 7, 10; pl. 3, fig. 13.
(Barra de Sacra, Department of Paysandu, Uruguay).

Holotype USNM 341376.

asuncionis Marshall, Diplodon: 1926, PUSNM 69, art. 12, p. 8,
pl. 2, figs. 2, 8; pl. 3, fig. 5 (Paraguay River, Asuncion,
Paraguay). Holotype USNM 361959.

aurora Marshall, Anodontites: 1915, PUSNM 49: 529, pl. 69, figs.
1-3 (Ceara, Brazil). Holotype USNM 273689

bassleri Marshall, Prodiplodon: 1928, PUSNM 74, art. 3, p.3,
 pl. 1, fig. 1 (Pebas, Peru [fossil]). Holotype USNM 370811.

bibliana Marshall and Bowles, Ecuadorea: 1932, PUSNM 82, art.
 5, p. 5, pl. 1, figs. 7, 8 (Biblian, Province of Canar,
 Ecuador). Holotype USNM 372843.

Castaliodes Marshall, genus: 1934, Jour. Washington Acad. Sci.
24: 78. Type species: Castaliodes laddi Marshall,
 original designation.

Cokeria Marshall, genus: 1916, Nautilus 29: 133. Type species,
Cokeria southalli Marshall, original designation.

cookei Marshall, Diplodontites: 1922, PUSNM 61, art. 16, p. 2,
 pl. 1, figs. 1, 3, 7, 8, 10; pl. 3, fig. 4 (tributary of
 the Rio Colorado, which in turn becomes a tributary to the
 Rio Magdalena, Province of Santander, Colombia). Holotype
 USNM 341373.

colombiensis Marshall, Anodontites: 1922, PUSNM 61, art. 16,
 p. 7, pl. 1, fig. 5; pl. 2, figs. 13, 14; pl. 3, figs.
 5, 13, 14 (tributary of the Rio Colorado, Province of
 Santander, Colombia). Holotype USNM 341472.

darochai Marshall, Anodontites: 1915, PUSNM 49: 528, pl. 68,
 figs. 1-3 (Ceara, Brazil). Holotype USNM 273687.

dewittensis Marshall, Antediplodon: 1929, PUSNM 76, art. 1,
 p. 5, pl. 1, fig. 7 (along Guadalupe River, south central
 De Witt Co., Texas, Reynosa Formation: Tertiary). Holotype
 USNM 371003.

Diplodontites Marshall, genus: 1922, PUSNM 61, art. 16, p. 1.

Type species: Diplodontites cookei Marshall, original designation.

divaricatus Marshall, Elliptio: 1926, PUSNM 69, art. 12, p. 5, pl. 1, figs. 1, 2; pl. 3, fig. 3 (Finca de Providencia, Guatemala). Holotype USNM 362398.

Ecuadorea Marshall and Bowles, genus: 1932, PUSNM 82, art. 5, p. 5. Type species: Ecuadorea bibliana Marshall and Bowles, original designation.

elfa Marshall, Anodontites: 1928, PUSNM 74, art. 17, p. 3, pl. 4, figs. 4-6 (Canada Grande, Department of Cerro Largo, Uruguay). Holotype USNM 368998.

Eodiplodon Marshall, genus: 1928, PUSNM 74, art. 3, p. 4.

Type species Eodiplodon gardnerae Marshall, original designation [fossil].

Eonaias Marshall, genus: 1929, PUSNM 76, art. 1, p. 3. Type species: Eonaias reynosenica Marshall, original designation.

felipponei Marshall, Diplodon: 1917, PUSNM 53: 381, pl. 50, figs. 1-3; pl. 51, fig. 1 (Maldonado, Uruguay). Holotype USNM 322291.

felipponei Marshall, Monocondylaea: 1922, PUSNM 61, art. 16, p. 8, pl. 1, figs. 2, 13; pl. 2, figs. 4, 11; pl. 3, fig. 7 (Barra del Arroyo Sacra, Department of Pausandu, Uruguay). Holotype USNM 340663

- felipponei Marshall, Mycetopoda: 1928, PUSNM 74, art. 17, p. 4, pl. 1, fig. 2, pl. 3, figs. 1, 3 (Canada Grande, Department of Cerro Largo, Uruguay). Holotype USNM 368235.
- fortis Marshall, Diplodon: 1917, PUSNM 53: 382, pl. 52, figs. 1-4 (Río Negro, Tacuarembó, Uruguay). Holotype USNM 270899.
- gardnerae Marshall, Eodiplodon: 1928, PUSNM 74, art. 3, p. 4, pl. 1, figs. 2, 8 (Pebas, Peru [fossil]). Holotype USNM 370812.
- guanariensis Marshall, Anodontites: 1927, PUSNM 71, art. 6, p. 3, pl. 1, figs. 4-6 (dried lagoon at Mata Verde, near Guanare, Portuguesa, Venezuela, Orinoco River drainage). Holotype USNM 365225.
- herreriae Marshall, Elliptio: 1924, PUSNM 63, art. 16, p. 1, pl. 1, figs. 6-8; pl. 2, figs. 4, 5 (Estera del Avileno, State of Tamaulipas, Mexico). Holotype USNM 347183.
- irisans Marshall, Anodontites: 1926, PUSNM 69, art. 12, p. 10, pl. 2, figs. 3, 5; pl. 3, fig. 7 (Venezuela). Holotype USNM 359920.
- jacksoni Marshall, Diplodon: 1928, PUSNM 74, art. 17, p. 1, pl. 4, figs. 1-3 (Arcas, this locality is on a small tributary, near the source of the Rio Sao Francisco which flows in a general NE course and enters the Atlantic at about Latitude 11°S, Province of Minas Geres, Brazil). Holotype USNM 368260.

- laddi Marshall, Castalioides: 1934, Jour. Washington Acad. Sci.
24: 78, figs. 1-3 (near Aragua de Maturin, District of Piar,
 State of Monagas, Venezuela [fossil]). Holotype USNM 373033.
- lempensis Marshall, Nephronaias: 1926, PUSNM 69, art. 12, p. 4,
 pl. 2, figs. 4, 6; pl. 3, fig. 4 (Rio Lempe, at the rail-
 road bridge, Salvador). Holotype USNM 361764.
- linki Marshall, Tetraplodon: 1926, PUSNM 69, art. 12, p. 6,
 pl. 1, figs. 6, 7, pl. 3, fig. 2 (Sinu River, Loric,
 Province of Bolivar, Colombia). Holotype USNM 362860.
- mansfieldi Marshall, Anodontites: 1928, PUSNM 74, art. 17, p.
 4, pl. 2, figs. 1-3 (Canada Grande, Department of Cerro
 Largo, Uruguay). Holotype USNM 368254.
- Mycetopodella Marshall, genus: 1927, PUSNM 71, art. 6, p. 1.
 Type species: Mycetopus falcatus Higgins, monotypy.
- palmeri Marshall, Anodontites: 1930, PUSNM 77, art. 2, p. 6,
 pl. 2, figs. 1, 4, 7 (small stream 13 km S Puerto Santos,
 Province of Santander del Norte Colombia). Holotype USNM
 380695.
- paucarpatisensis Marshall, Prodiplodon: 1928, PUSNM 74, art. 3,
 p. 4, pl. 1, fig. 4 (Paucarpata, on the Marañon River, Peru
 [fossil]). Holotype USNM 370810.

- pebasensis Marshall, Eodiplodon: 1928, PUSNM 74, art. 3, p. 5, pl. 1, figs. 5, 7 (Pebas, Peru [fossil]). Holotype USNM 370813.
- perfragilis Marshall, Diplodon: 1924, PUSNM 63, art. 16, p. 2, pl. 1, figs. 3, 4; pl. 2, figs. 1-3 (Department of Colonia, Uruguay). Holotype USNM 346801.
- pilsbryi Marshall, Diplodon: 1928, PUSNM 74, art. 17, p. 2, pl. 1, figs. 1, 3; pl. 3, fig. 2 (Canada Grande, Department of Cerro Largo, Uruguay). Holotype USNM 368237.
- pittieri Marshall, Anodontites: 1922, PUSNM 61, art. 16, p. 6, pl. 1, figs. 9, 11; pl. 2, figs. 1, 12; pl. 3, fig. 6 (Guaremales, Venezuela). Holotype USNM 339954.
- pittieri Marshall, Mycetopoda: 1927, PUSNM 71, art. 6, p. 4, pl. 2, figs. 1-3 (dried lagoon at Mata Verde, near Guanare, Portuguesa, Venezuela, Orinoco River drainage). Holotype USNM 366227.
- Pliconaias Marshall, genus: 1929, PUSNM 76, art. 1, p. 2. Type species: Pliconaias popenoei Marshall, original designation.
- podagrosus Marshall, Diplodon: 1924, PUSNM 63, art. 16, p. 3, pl. 1, figs. 1, 2, 5; pl. 2, figs. 6, 7 (Colon, Province of Entre Rios, Argentina). Holotype USNM 346770.

popenoei Marshall, Pliconaias: 1929, PUSNM 76, art. 1, p. 2,
pl. 1, fig. 1, 9 (along Guadalupe River, south central
De Witt Co., Texas, Reynosa Formation: Tertiary). Holotype
USNM 370999.

Prodiplodon Marshall, genus: 1928, PUSNM 74, art. 3, p. 1.

Type species: Prodiplodon singewaldi Marshall, original
designation [fossil].

reynosenica Marshall, Eonaias: 1929, PUSNM 76, art. 1, p. 4,
pl. 1, figs. 3, 4, 6 (along Guadalupe River, south Central
De Witt Co., Texas, Reynosa Formation: Tertiary). Holotype
USNM 371001.

Ruganodontites Marshall, subgenus: 1931, Nautilus 45: 16. Type
species: Anodontites colombiensis Marshall, original
designation. (Subgenus of Anodontites)

salmonea Marshall, Anodontites: 1915, PUSNM 49: 527, pl. 67,
figs. 1-3 (Ceara, Brazil). Holotype USNM 273688.

schadei Marshall, Anodontites: 1934, Jour. Washington Acad. Sci.
24: 80, figs. 4-6 (Tubicuary River, Aroja southern Paraguay).
Holotype USNM 434732.

singewaldi Marshall, Prodiplodon: 1928, PUSNM 74, art. 3, p. 2,
pl. 1, figs. 3, 6 (Paucarpata on the Marañon River, Peru
[fossil]). Holotype USNM 370808.

- smithi Marshall, Diplodon (Cyclomya): 1926, PUSNM 69, art. 12, p. 9, pl. 2, figs. 1, 7; pl. 3, fig. 6 (Tigre River, Buenos Aires, Argentina). Holotype USNM 363027.
- southalli Marshall, Cokeria 1916, Nautilus 29: 133, pl. 4 (James River, Huron [Beadle Co.], South Dakota). Known only from the figured holotype USNM 215130.
- subcylindricus Marshall, Diplodon: 1922, FUSNM 61, art. 16, p. 3, pl. 2, figs. 1, 2; pl. 3, figs. 1, 2, 11 (Arroyo Manga, Department of Montevideo, Uruguay). Holotype USNM 341375.
- subquadratus Marshall, Diplodon: 1922, PUSNM 61, art. 16, p. 3, pl. 2, figs. 6, 8; pl. 3, figs. 8-10 (Paysandu, Uruguay). Holotype USNM 335774.
- trivialoides Marshall, Diplodon: 1922, PUSNM 61, art. 16, p. 5, pl. 1, figs. 12, 14; pl. 2, figs. 3, 5; pl. 3, fig. 12 (Arroyo Bellaco, Department of Paysandu, Uruguay). Holotype USNM 335770.
- wheatleyi Marshall, Hyria: 1926, PUSNM 69, art. 12, p. 7, pl. 1, figs. 3, 5; pl. 3, fig. 1 (Rio Negro, 1200 mi. up the Amazon [River, Brazil]). Holotype USNM 85336.
- yaguaronis Marshall, Diplodon: 1930, PUSNM 77, art. 2, p. 5, pl. 2, figs. 2, 3, 5, 6 (Rio Yaguaron, Department of Cerro Largo, Uruguay). Holotype USNM 380554.



3 2044 066 302 894

Date Due



